

Abstract

Flow meter electronics are described for providing a flow rate of a material flowing through a flow meter sensor of a Coriolis flow meter. The flow meter electronics comprise a processing system and a single output port. The processing system receives pick-off signals from the flow meter sensor and processes the pick-off signals to determine the flow rate.

The processing system receives an instruction for a frequency output signal or a digital communication protocol signal. If the instruction is for a frequency output signal, then the processing system processes the flow rate to generate a frequency output signal and transmits the frequency output signal over the single output port. If the instruction is for a digital communication protocol signal, then the processing system processes the flow rate to generate a digital communication protocol signal and transmits the digital communication protocol signal over the single output port.